

## Figures

Figure 1a. Intensity Instrumentation for Stern-Volmer Characterizations – optical and vacuum measurement system

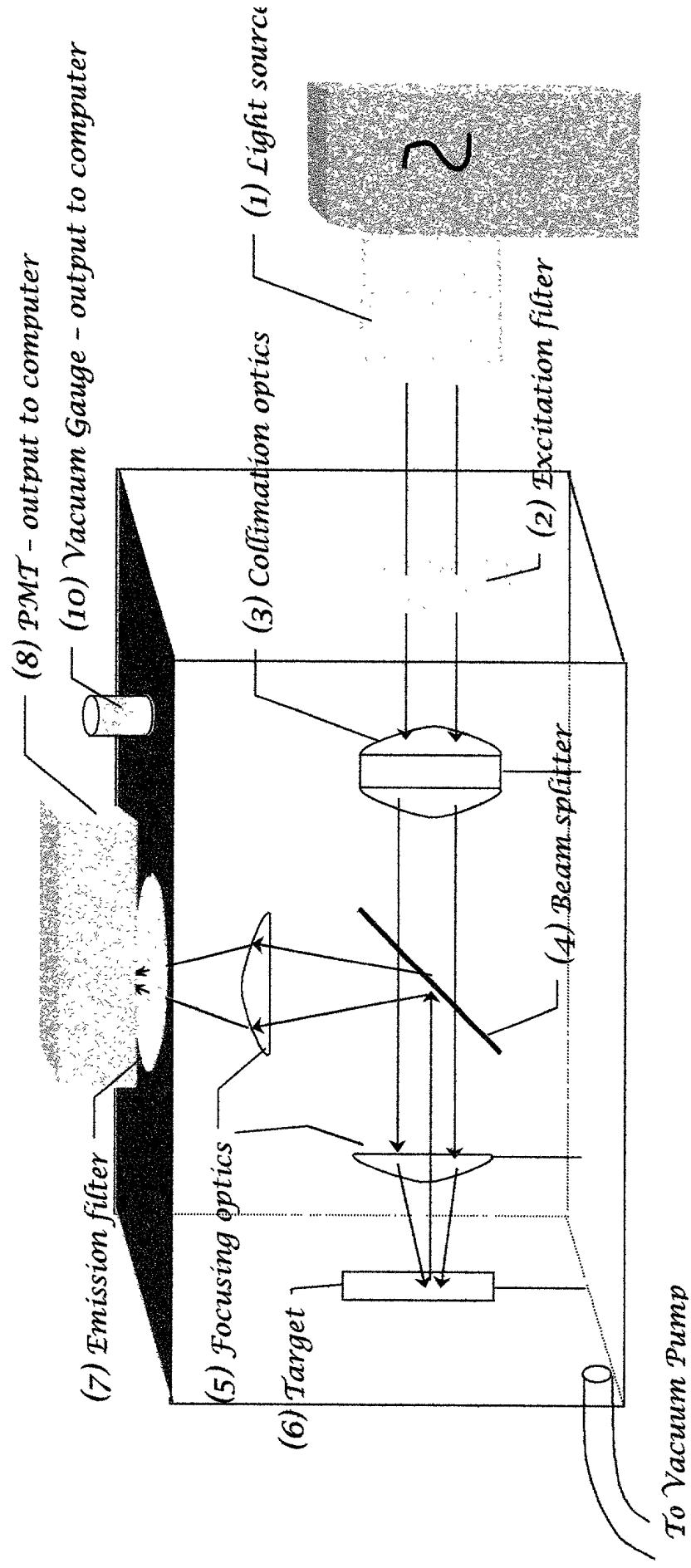


Figure 1b. Comparison of Stern-Volmer Response Characteristics for PtTPP and PdTPP in ethylene-octene copolymer

### Comparison of PdTPP and PtTPP in LDPE Film

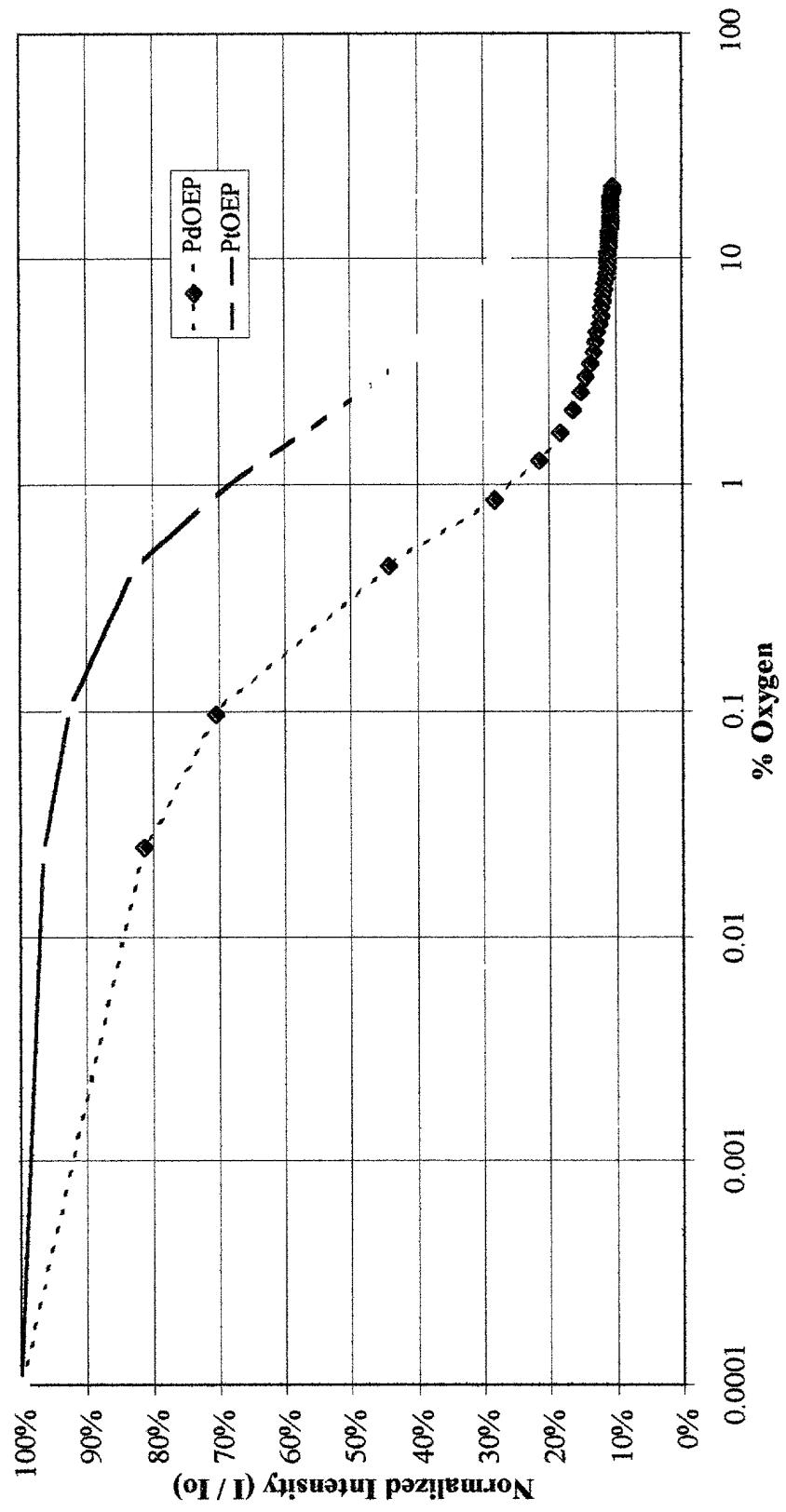


Figure 2a. Optical instrumentation used for lifetime measurements

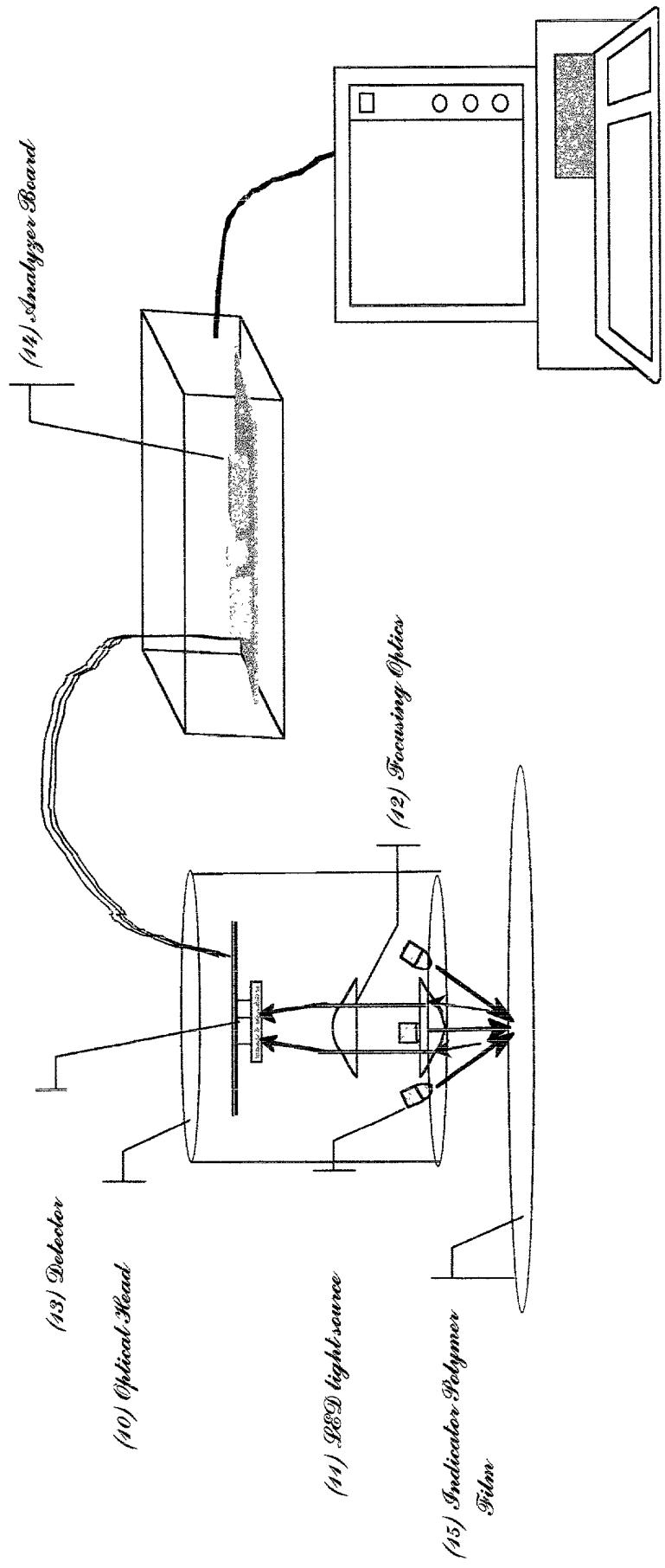


Figure 2b. Ratio Response of PdTPP Dye in LDPE as a Function of Oxygen Concentration.

**Ratio Response of PdTPP Indicator-Polymer Using Lifetime Instrumentation**

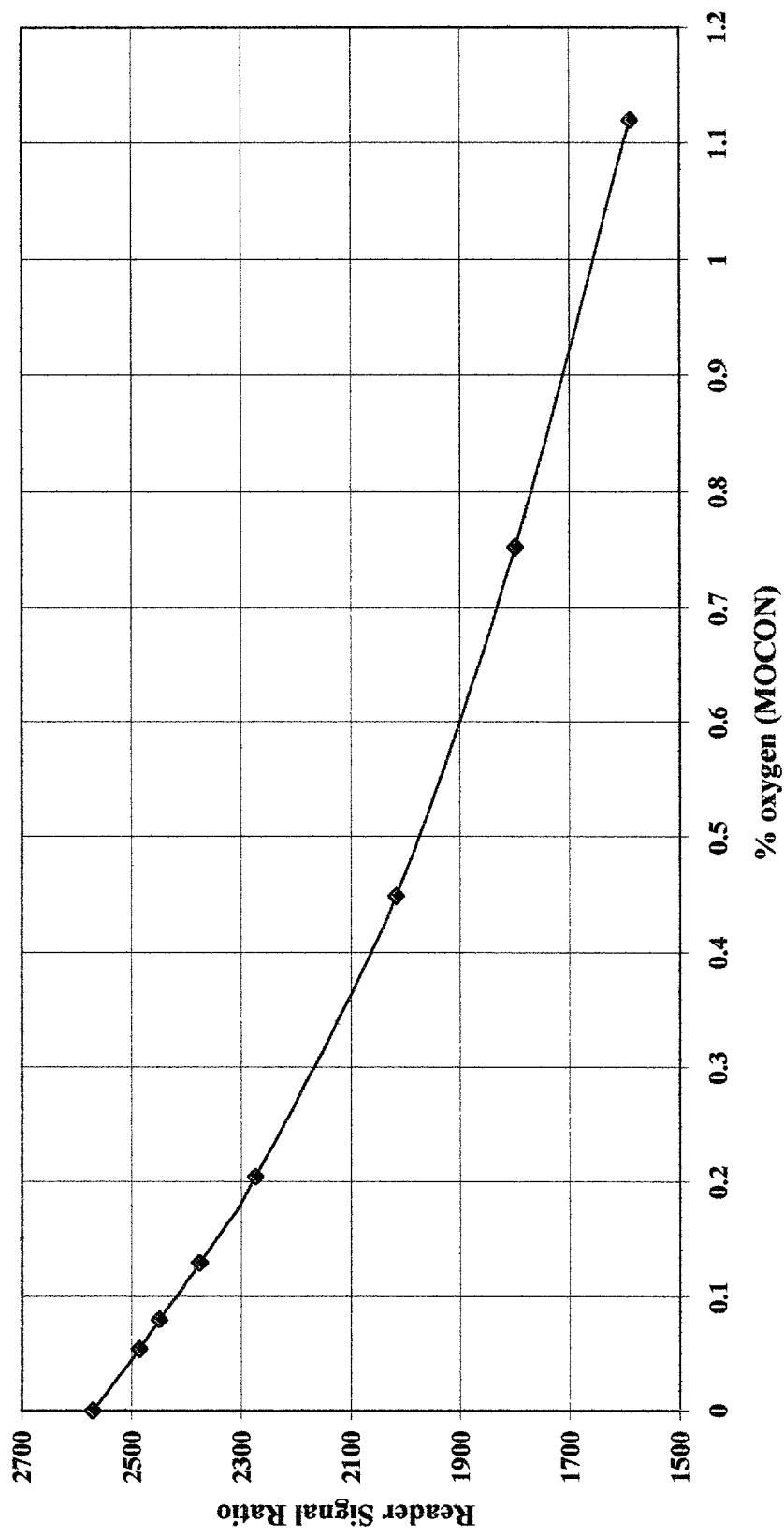


Figure 3. Emission spectra of PtOEP indicator in a thermal melt preparation of a commercial LDPE thermoplastic polymer.  
Excitation centered at 400nm.

Emission Spectrum  
PtOEP-LDPE

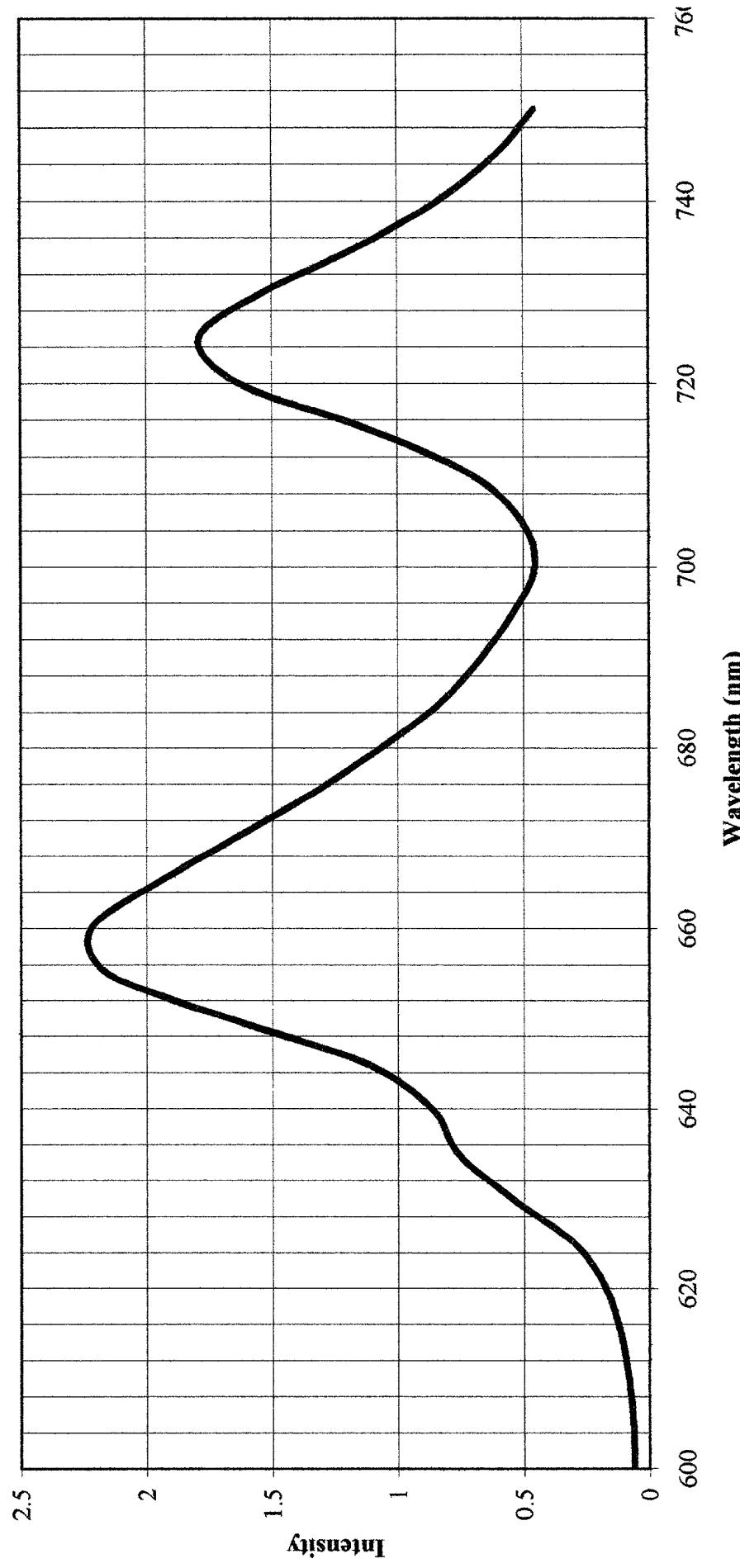


Figure 4. Ratiometric Response Curves for Press-Plaques from Different Carrier Polymers

**Ratio Response of Pd/TPP indicator in Different Commercial Carrier Polymers**

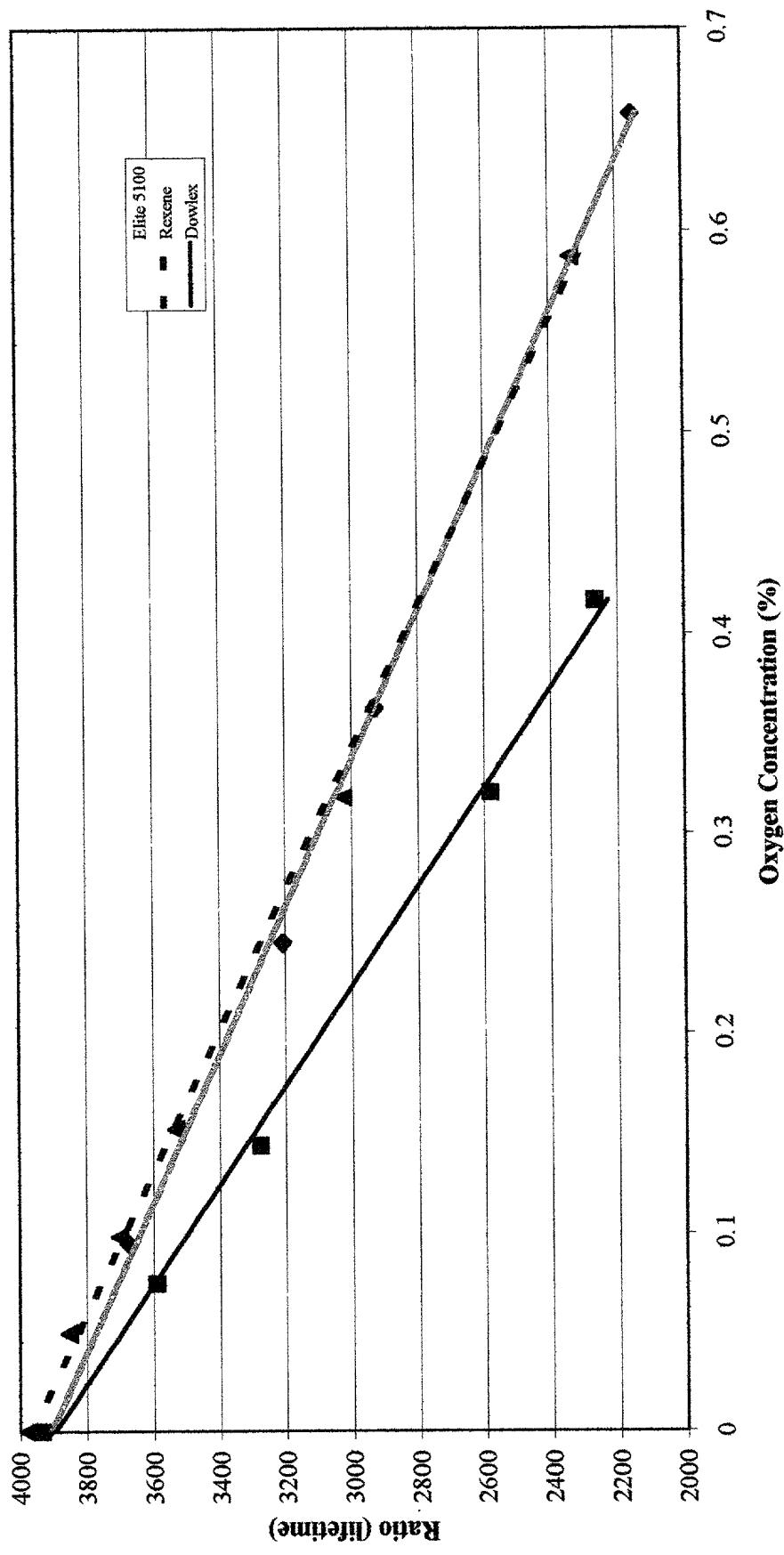


Figure 5. Ratio response of a PtOEP film prepared by extrusion in twin-screw extrusion machine

PtOEP Oxygen Indicator Polymer Film

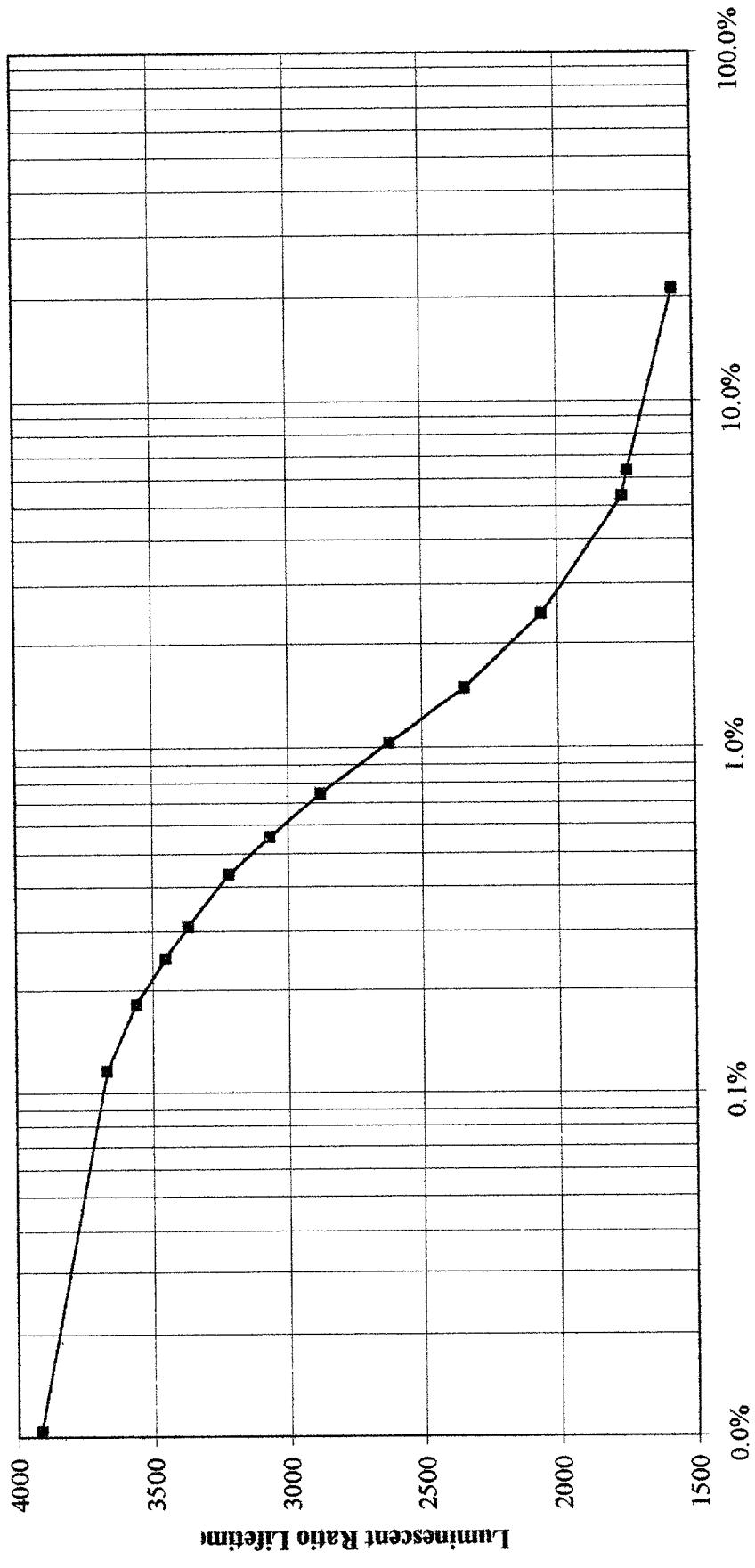


Figure 6. Various Laminate Forms of the Oxygen Sensor in Flexible Package Wrap Material

Indicator-Polymer Laminate Test Series  
PtOEP/Dowlex Indicator Film

